

104086

From: Landsman, Robert
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thanks

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Patent Examiner

CM1, 9D11, AU 1647

703-306-3407

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Other (specify): _____

Qy	245	GCGACTGCTCAGACCCCTTAGCTCAGGCAAGTTGCTCCCCAGCACCTGGCTCCTGGCTCA	304
Db	241	GCGACTGCTCAGACCCCTTAGCTCAGGCAAGTTGCTCCCCAGCACCTGGCTCCTGGCTCA	300
Qy	305	ACTTGTTCCACGTTGATGGCAACCAGTCCGATCCATGCGGTCTGAACCGCACCGGGCTTG	364
Db	301	ACTTGTTCCACGTTGATGGCAACCAGTCCGATCCATGCGGTCTGAACCGCACCGGGCTTG	360
Qy	365	GCGGGAACGACAGCCTGTGCCCTCAGACCGGCAGCCCTTCCATGGTCACAGCCATTACCA	424
Db	361	GCGGGAACGACAGCCTGTGCCCTCAGACCGGCAGCCCTTCCATGGTCACAGCCATTACCA	420
Qy	425	TCATGGCCCTCTACTCTATCGTGTGTGTAGTGGGCTCTTCGGAAACTTCCTGGTCATGT	484
Db	421	TCATGGCCCTCTACTCTATCGTGTGTGTAGTGGGCTCTTCGGAAACTTCCTGGTCATGT	480
Qy	485	ATGTGATTGTAAGATACACCAAATGAAGACTGCCACCAACATCTACATTTTCAACCTTG	544
Db	481	ATGTGATTGTAAGATACACCAAATGAAGACTGCCACCAACATCTACATTTTCAACCTTG	540
Qy	545	CTCTGGCAGACGCCTTAGCGACCAGTACACTGCCCTTTCAGAGTGTCAACTACCTGATGG	604
Db	541	CTCTGGCAGACGCCTTAGCGACCAGTACACTGCCCTTTCAGAGTGTCAACTACCTGATGG	600
Qy	605	GAACATGGCCCTTCGGAACCATCCTCTGCAAGATCGTGATCTCAATAGATTACTACAACA	664
Db	601	GAACATGGCCCTTCGGAACCATCCTCTGCAAGATCGTGATCTCAATAGATTACTACAACA	660
Qy	665	TGTTACACAGCATATTCACCCTCTGCACCATGAGCGTGGACCGCTACATTGCTGTCTGCC	724
Db	661	TGTTACACAGCATATTCACCCTCTGCACCATGAGCGTGGACCGCTACATTGCTGTCTGCC	720
Qy	725	ACCCAGTCAAAGCCCTGGATTTCGGTACCCCCGAAATGCCAAAATCGTCAACGTCTGCA	784
Db	721	ACCCAGTCAAAGCCCTGGATTTCGGTACCCCCGAAATGCCAAAATCGTCAACGTCTGCA	780
Qy	785	ACTGGATCCTCTCTTCTGCCATCGGTCTGCCTGTAATGTTTCATGGCAACCACAAAATACA	844
Db	781	ACTGGATCCTCTCTTCTGCCATCGGTCTGCCTGTAATGTTTCATGGCAACCACAAAATACA	840
Qy	845	GGCAGGGGTCCATAGATTGCACCCTCACGTTCTCCACCCAACCTGGTACTGGGAGAACC	904
Db	841	GGCAGGGGTCCATAGATTGCACCCTCACGTTCTCCACCCAACCTGGTACTGGGAGAACC	900
Qy	905	TGCTCAAAATCTGTGTCTTTATCTTCGCTTTCATCATGCCGATCCTCATCATCACTGTGT	964
Db	901	TGCTCAAAATCTGTGTCTTTATCTTCGCTTTCATCATGCCGATCCTCATCATCACTGTGT	960
Qy	965	GTTACGGCCTGATGATCTTACGACTCAAGAGCGTTTCGCATGCTATCGGGCTCCAAAGAAA	1024
Db	961	GTTACGGCCTGATGATCTTACGACTCAAGAGCGTTTCGCATGCTATCGGGCTCCAAAGAAA	1020
Qy	1025	AGGACAGGAATCTGCGCAGGATCACCCGGATGGTGTGGTGGTTCGTGGCTGTATTTATCG	1084
Db	1021	AGGACAGGAATCTGCGCAGGATCACCCGGATGGTGTGGTGGTTCGTGGCTGTATTTATCG	1080
Qy	1085	TCTGCTGGACCCCCATCCACATCTACGTCATCATCAAAGCGCTGATCACGATTCCAGAAA	1144
Db	1081	TCTGCTGGACCCCCATCCACATCTACGTCATCATCAAAGCGCTGATCACGATTCCAGAAA	1140
Qy	1145	CCACATTTACAGACCGTTTCCTGGCACTTCTGCATTGCTTTGGGTTACACGAACAGCTGCC	1204
Db	1141	CCACATTTACAGACCGTTTCCTGGCACTTCTGCATTGCTTTGGGTTACACGAACAGCTGCC	1200

Qy 1205 TGAATCCAGTTCTTTACGCCTTCCTGGATGAAAACCTCAAGCGATGCTTCAGAGAGTTCT 1264
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 1201 TGAATCCAGTTCTTTACGCCTTCCTGGATGAAAACCTCAAGCGATGCTTCAGAGAGTTCT 1260
 Qy 1265 GCATCCCAACCTCGTCCACGATCGAACAGCAAACTCCACTCGAGTCCGTCAGAACACTA 1324
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 1261 GCATCCCAACCTCGTCCACGATCGAACAGCAAACTCCACTCGAGTCCGTCAGAACACTA 1320
 Qy 1325 GGAACATCCCTCCACGGCTAATACAGTGGATCGAACTAACCACCAGCTAGAAAATCTGG 1384
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 1321 GGAACATCCCTCCACGGCTAATACAGTGGATCGAACTAACCACCAGCTAGAAAATCTGG 1380
 Qy 1385 AGGCAGAAACTGCTCCATTGCCCTAACTGGGTCTCACACCATCCAGACCCCTCGCTAAGCT 1444
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 1381 AGGCAGAAACTGCTCCATTGCCCTAACTGGGTCTCACACCATCCAGACCCCTCGCTAAGCT 1440
 Qy 1445 TAGAGGCCGCCATCTACGTGGAATCAGGTTGCTGTGTCAGGGTGTGTGGGAGGCTCTGGTTT 1504
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 1441 TAGAGGCCGCCATCTACGTGGAATCAGGTTGCTGTGTCAGGGTGTGTGGGAGGCTCTGGTTT 1500
 Qy 1505 CCTGAGAAACCATCTGATCCTGCATTCAAAGTCATTCCTCTCTGGCTACTTCACTCTGCA 1564
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 1501 CCTGAGAAACCATCTGATCCTGCATTCAAAGTCATTCCTCTCTGGCTACTTCACTCTGCA 1560
 Qy 1565 CATGAGAGATGCTCAGACTGATCAAG 1590
 ||||||||||||||||||||
 Db 1561 CATGAGAGATGCTCAGACTGATCAAG 1586

B

ID AAD11041 standard; cDNA; 1981 BP.
 XX
 AC AAD11041;
 XX
 DT 24-SEP-2001 (first entry)
 XX
 DE Murine delta opioid receptor (DOR-2) partial cDNA.
 XX
 KW Mouse; delta opioid receptor; DOR-2; analgesic; enkephalin;
 KW opioid addiction; anti-addictive; ss.
 XX
 OS Mus sp.
 XX
 PN US6265563-B1.
 XX
 PD 24-JUL-2001.
 XX
 PF 13-FEB-1995; 95US-0387707.
 XX
 PR 13-AUG-1992; 92US-0929200.
 XX
 PA (REGC) UNIV CALIFORNIA.
 XX
 PI Evans CJ, Keith DE, Edwards RH, Kaufman D;
 XX
 DR WPI; 2001-463944/50.
 XX
 PT Nucleic acids encoding mammalian kappa and mu opioid receptors, useful
 PT e.g. to identify substances for treating opioid addiction and/or useful
 PT as analgesics -
 XX
 PS Claim 7; Fig 9; 46pp; English.
 XX

CC The invention relates to recombinant nucleic acid molecules which encode
CC the murine delta opioid receptor, as well as recombinant nucleic acid
CC molecules which can be retrieved using low-stringency hybridisation to
CC this disclosed DNA. The invention provides genes encoding delta, kappa,
CC and mu receptors of any species containing genes encoding such receptors
CC sufficiently homologous to hybridise under low-stringency conditions.
CC The nucleic acids may be used to recombinantly express kappa and
CC mu opioid receptors in host cells. These cells may then be used in
CC assays to identify modulators of the receptors activity that may be
CC used, for example as analgesics or to combat the effects of opioid
CC addiction. The nucleic acids and their complements may also be used as
CC probe sequences to identify and characterise opioid receptor nucleic
CC acids. The present sequence is murine delta opioid receptor (DOR-2)
CC partial cDNA, mMOR-1.

XX

SQ Sequence 1981 BP; 499 A; 550 C; 436 G; 495 T; 1 other;

Query Match 85.7%; Score 1386.4; DB 22; Length 1981;
Best Local Similarity 92.2%; Pred. No. 0;
Matches 1494; Conservative 0; Mismatches 122; Indels 5; Gaps 3;

Qy	2	GTGGAAGGGGGCTACAAGCAGAGGAGAATATCAGACGCTCAGACGTTCCCTTCTGCCTGC	61
Db	43	GTGGGAGGGGGATACAAGCAGAGGAGAATATCGGACGCTCAGACGTTCCATTCTGCCTGC	102
Qy	62	CGCTCTTCTCTGGTTCCACTAGGGCTGGTCCATGTAAGAATCTGACGGAGCCTAGGGCAG	121
Db	103	CGCTCTTCTCTGGTTCCACTAGGGCTGTCTTGTGAAGAACTGACGGAGCCTAGGGCAG	162
Qy	122	CTGTGAGAGGAAGAGGCTGGGGCGCGTGGAACCCGAAAAGTC-TGAGTGCTCTCAGTTAC	180
Db	163	CTGTGAGAGGAAGAGGCTGGGGCGCCTGGAACCCGAACACTCTTGAGTGCTCTCAGTTAC	222
Qy	181	AGCCTACCTAGTCCGCAGCAGGCCTTCAGCACCATGGACAGCAGCACCGGCCAGGGAAC	240
Db	223	AGNCTACCGAGTCCGCAGGAAGCATTTCAGAACCATGGACAGCAGCGCCGGCCAGGGAAC	282
Qy	241	ACCAGCGACTGCTCAGACCCCTTAGCTCAGGCAAGTTGCTCCCCAGCACCTGGCTCCTGG	300
Db	283	ATCAGCGACTGCTCTGACCCCTTAGCTCCTGCAAGTTGCTCCCCAGCACCTGGCTCCTGG	342
Qy	301	CTCAACTTGTCCCACGTTGATGGCAACCAAGTCCGATCCATGCGGTCTGAACCGCACCGGG	360
Db	343	CTCAACTTGTCCCACGTTGATGGAAACCAAGTCCGACCCATGCGGTCTTAACCCGACGGGC	402
Qy	361	CTTGGCGGGAACGACAGCCTGTGCCCTCAGACCGGCAGCCCTTCCATGGTTCAGCCATT	420
Db	403	CTTGGCGGGAACGACAGCCTGTGCCCTCAGACCGGCAGCCCTTCCATGGTTCAGCCATC	462
Qy	421	ACCATCATGGCCCTCTACTCTATCGTGTGTGTAGTGGGCCTCTTCGGAAACTTCCTGGTC	480
Db	463	ACCATCATGGCCCTCTATTCTATCGTGTGTGTAGTGGGCCTCTTGGAAACTTCCTGGTC	522
Qy	481	ATGTATGTGATTGTAAGATACACAAAATGAAGACTGCCACCAACATCTACATTTTCAAC	540
Db	523	ATGTATGTGATTGTAAGATATACAAAATGAAGACTGCCACCAACATCTACATTTTCAAC	582
Qy	541	CTTGCTCTGGCAGACGCCTTAGCGACCAGTACACTGCCCTTTCAGAGTGTCAACTACCTG	600
Db	583	CTTGCTCTGGCAGATGCCTTAGCCACTAGCACGCTGCCCTTTCAGAGTGTTAACTACCTG	642

Qy	601	ATGGGAACATGGCCCTTCGGAACCATCCTCTGCAAGATCGTGATCTCAATAGATTACTAC	660
Db	643	ATGGGAACGTGGCCCTTTGGAAACATCCTCTGCAAGATCGTGATCTCAATAGACTACTAC	702
Qy	661	AACATGTTTACCAGCATATTACCCCTCTGCACCATGAGCGTGGACCGCTACATTGCTGTC	720
Db	703	AACATGTTTACCAGTATCTTACCCCTCTGCACCATGAGTGTAGACCGCTACATTGCCGTC	762
Qy	721	TGCCACCCAGTCAAAGCCCTGGATTTCGTTACCCCCGAAATGCCAAAATCGTCAACGTC	780
Db	763	TGCCACCCGGTCAAAGGCCCTGGATTTCGTTACCCCCGAAATGCCAAAATTGTCAATGTC	822
Qy	781	TGCAACTGGATCCTCTCTTCTGCCATCGGTCTGCCTGTAATGTTTCATGGCAACCACAAA	840
Db	823	TGCAACTGGATCCTCTCTTCTGCCATTGGTCTGCCCGTAATGTTTCATGGCAACCACAAA	882
Qy	841	TACAGGCAGGGGTCCATAGATTGCACCCTCACGTTCTCCACCCAACCTGGTACTGGGAG	900
Db	883	TACAGGCAGGGGTCCATAGATTGCACCCTCACGTTCTCTCATCCACATGGTACTGGGAG	942
Qy	901	AACCTGCTCAAAATCTGTGTCTTTATCTTCGCTTTCATCATGCCGATCCTCATCATCACT	960
Db	943	AACCTGCTCAAAATCTGTGTCTTCATCTTCGCCTTCATCATGCCGGGCCCTCATCATCACT	1002
Qy	961	GTGTGTTTACGGCCTGATGATCTTACGACTCAAGAGCGTTTCGCATGCTATCGGGCTCCAA	1020
Db	1003	GTGTGTTTATGGACTGATGATCTTACGACTCAAGAGTGTCCGCATGCTGTCTGGGCTCCAA	1062
Qy	1021	GAAAAGGACAGGAATCTGCGCAGGATCACCCGGATGGTGCTGGTGGTCGTGGCTGTATTT	1080
Db	1063	GAAAAGGACAGGAACCTGCGCAGGATCACCCGGATGGTGCTGGTGGTCGTGGCTGTATTT	1122
Qy	1081	ATCGTCTGCTGGACCCCCATCCACATCTACGTCATCATCAAAGCGCTGATCACGATTCCA	1140
Db	1123	ATTGTCTGCTGGACCCCCATCCACATCTATGTCATCATCAAAGCACTGATCACGATTCCA	1182
Qy	1141	GAAACCACATTTTACAGCCGTTTCTGGCACTTCTGCATTGCCTTTGGGTTACACGAACAGC	1200
Db	1183	GAAACCACTTTCCAGACTGTTTCTGGCACTTCTGCATTGCCTTTGGGTTACACAAACAGC	1242
Qy	1201	TGCCTGAATCCAGTTCTTTACGCCTTCTCGGATGAAAACCTCAAGCGATGCTTCAGAGAG	1260
Db	1243	TGCCTGAACCCAGTTCTTTATGCGTTCTCGGATGAAAACCTCAAACGATGTTTTAGAGAG	1302
Qy	1261	TTCTGCATCCCAACCTCGTCCACGATCGAACAGCAAACTCCACTCGAGTCCGTGAGAAC	1320
Db	1303	TTCTGCATCCCAACTTCTCCACAATCGAACAGCAAACTCTGCTCGAATCCGTCAAAC	1362
Qy	1321	ACTAGGGAACATCCCTCCACGGCTAATACAGTGGATCGAACTAACCACCAGCTAGAAAAAT	1380
Db	1363	ACTAGGGAACACCCCTCCACGGCTAATACAGTGGATCGAACTAACCACCAGCTAGAAAAAT	1422
Qy	1381	CTGGAGGCAGAAACTGCTCCATTGCCCTAACTGGGTCTCACACCATCCAGACCCTCGCTA	1440
Db	1423	CTGGAAGCAGAAACTGCTCCATTGCCCTAACTGGGTCCCACGCCATCCAGACCCTCGCTA	1482
Qy	1441	AGCTTAGAGGCCGCCATCTACGTGGAATCAGGTTGCTGTGAGGGTGTGTGGGAGGCTCTG	1500
Db	1483	AACTTAGAGGCTGCCATCTACTTGAATCAGGTTGCTGTGAGGGTTGTGGGAGGCTCTG	1542
Qy	1501	GTTTCCTGAGAAACCATCTGATCCTG--CATTCAAAGTCATTCTCTCTGGCTACTTCA	1557
Db	1543	GTTTCCTGAGAAAAGCATCTGATCCTGCATCATTCAAAGTCATTCTCTCTGGCTA-TTCA	1601

